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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/523,182	10/23/2006	Jean-Francois Pintos	PF020098	8285
24498 7590 12/20/2007 THOMSON LICENSING LLC Two Independence Way Suite 200 PRINCETON, NJ 08540			EXAMINER DINH, TRINH VO	
			ART UNIT 2821	PAPER NUMBER
			MAIL DATE 12/20/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/523,182	PINTOS ET AL.	
	Examiner	Art Unit	
	Trinh Vo Dinh	2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 October 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>01/28/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 5 and 7 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. While all the limitations recited in claim 2 are directed to a manner of manufacturing the antenna of claim 1, upon which it depends, they do not constitute any further limitation to the antenna of claim 1. Appropriate correction is required

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 5-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 5-9 tend to direct to processes for manufacturing while claim 1, upon which claims 5-8 depend, on its face is directed to a monopole antenna; and as such, it does not apprise a person of ordinary skill in the art of its scope of the claimed invention. Furthermore, the limitations recited in claims 5-9 which are directed to a manner of manufacturing the antenna of claim 1 do not differentiate the claimed antenna from a prior art's antenna. If Applicant(s) insists on retaining a process claim, separately rewriting the claim(s) in an independent form is suggested. Clarification is required.

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Claims 5 and 7 recite subject-matters of method types referring back to apparatus Claims 1-4, is not clear. It appears, that these claims relate to a production method for forming an antenna structure according to the embodiment shown in Fig. 4 and described on page 6, lines 9-22 of the description. A metallization step applied to the "exterior surface of the "cup"-shaped element" as set out in these claims, would cover the outer peripheral area of the block 10 (see Fig. 4), thus rendering the antenna structure inoperable.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindenblad (US 2,239,724 of record).

Respecting claim 1, Lindenblad discloses, in Fig. 10, a broadband monopole antenna comprising a cup-shaped radiating element (51) mounted on an earth plane forming support of annular shape (52), said radiating element being formed by a hollow element of metallizable material (Fig. 1, page 4, left-hand column, line 37 and lines 43-45). However, Lindenblad does not suggest radiating element and earth plane forming support are integrally formed on a hollow element of metallizable plastic or foam, However, such an integral formation is well known to the skilled person in the field of broadband monopole antennas (refer to EP 1 189 305 of record, Figs. 2-3) in order to achieve compactness and ease of manufacture of the antenna. Therefore,

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the integral formation of a cup-shaped radiating element and earth plane forming support on a plastic element is regarded as a straightforward design possibility, the skilled person would readily select without the need of inventive skill.

Respecting claim 2, since the profiles of the continuously curved antenna element and the earth plane forming support of Lindenblad assure impedance matching of the antenna over a wide frequency range, a profile of the antenna element following the formulas set out in Claim 2 would be one out of several design possibilities for the skilled person to achieve wide band impedance matching, without, the exercise of inventive skill as evident in Lindenblad, page 3, left-hand column, lines 28-29, or in US 2,454,766 of record, Fig. 1.

Respecting claims 3 and 4, Lindenblad discloses an earth plane forming support of annular shape comprising a circular annulus forming a semi-toroidal element (52, 53 in Fig. 10; page 3, right-hand column, lines 9-10).

Respecting claims 5-9, the limitations recited in claims 5-9 which are directed to a manner of manufacturing the antenna of claim 1 do not differentiate the claimed antenna from the cited art's antenna. In other words, since Lindenblad discloses the claimed antenna, the claimed methods of manufacturing are merely intended uses.

Inquiry

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trinh Vo Dinh whose telephone number is (571) 272-1821. The examiner can normally be reached on Monday to Friday from 9:30AM to 6:00PM. The fax

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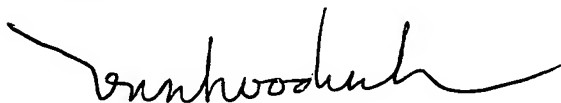
phone number for the organization where this application or proceeding is assigned is 571-273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Owens, can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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December 14, 2007

A handwritten signature in black ink, appearing to read 'Trinh Dinh', with a stylized, flowing script.

TRINH DINH
PRIMARY EXAMINER